

**SERVICE MANUAL**  
**DOCUMENTATION TECHNIQUE**  
**TECHNISCHE DOKUMENTATION**  
**DOCUMENTAZIONE TECNICA**  
**DOCUMENTACION TECNICA**

**THOMSON**   **AM 1480**  
**AM 1485**

Version (PC\*): A

\*PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



**Technical data - Caractéristiques principales**  
**Technische Daten - Dati tecnici - Características del aparato**

|   |   |   |
|---|---|---|
| Type of set :<br>Type d'appareil :<br>Geräteart :<br>Tipo d'apparecchio :<br>Tipo de aparato :  | Cassette radio recorder / compact disc<br>Combiné radio cassette / CD<br>CD-Radio Cassetten Portable<br>Insieme radio cassette / CD<br>Radio cassette / CD                    |  150 mm  230 mm  230 mm  3,5 kg   |
| Power supply :<br>Alimentation :<br>Stromversorgung :<br>Alimentazione :<br>Alimentación :  | 230 V ~   | Nominal output power :<br>Puissance nominale de sortie :<br>Nennausgangsleistung :<br>potenza nominale di uscita :<br>Potencia nominal de salida :  |
|  FM - MF :<br> MW - PO :<br> LW - GO : | 87,5 - 108 MHz<br>522 - 1620 kHz<br>150 - 283 kHz   |  Sensitivity :<br> FM - MF : 8 µV (S/N = 45 dB)<br> Empfindlichkeit : MW - PO : 1000 µV/m (S/N = 20 dB)<br> Sensibilità : LW - GO : 2500 µV/m (S/N = 30 dB)<br> Sensibilidad : |
|  Frequency response :<br>Courbe de réponse :<br>Frequenzgang :<br>Curva di risposta :<br>Curva de respuesta :  | 125 Hz - 6,3 kHz<br>(+5 / -5 dB)  | Signal to noise ratio :<br>Rapport signal / bruit :<br>Geräuschspannungsabstand :<br>Rapporto segnale / disturbo :<br>Relación señal / ruido :  |
|  Wow and flutter :<br>Fluctuations :<br>Gleichlauf :<br>Fluttuazioni :<br>Fluctuaciones :  | 0,35 %  |  4,75 cm/s<br> C60 : 170 s  |
|  DAD   | Disc rotation speed :<br>Vitesse de rotation du disque :<br>CD-Drehgeschwindigkeit : 200 → 500 tr/m<br>Velocità di rotazione del disco :<br>Velocidad de rotación del disco : | Frequency response :<br>Courbe de réponse :<br>Frequenzgang : 100 Hz - 16kHz<br>Curva di risposta : (-4/+2 dB)<br>Curva de respuesta :  |
| Stereo separation :   | 45 dB   | Signal to noise ratio :<br>Rapport signal / bruit :<br>Geräuschspannungsabstand :<br>Rapporto segnale / disturbo :<br>Relación señal / ruido :  |



**WARNING :** Before servicing this chassis read the safety recommendations.

**ATTENTION :** Avant toute intervention sur ce châssis, lire les recommandations de sécurité.

**ACHTUNG :** Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.

**ATTENZIONE :** Prima di intervenire sullo chassis, leggere le norme di sicurezza.

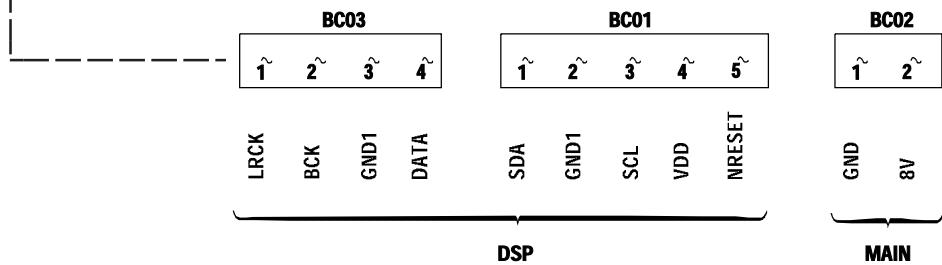
**IMPORTANTE :** Antes de cualquier intervención, leer las recomendaciones de seguridad.

**Code : 356 570 00 - 1002 / 3,7M - CRKD2103 Print.**

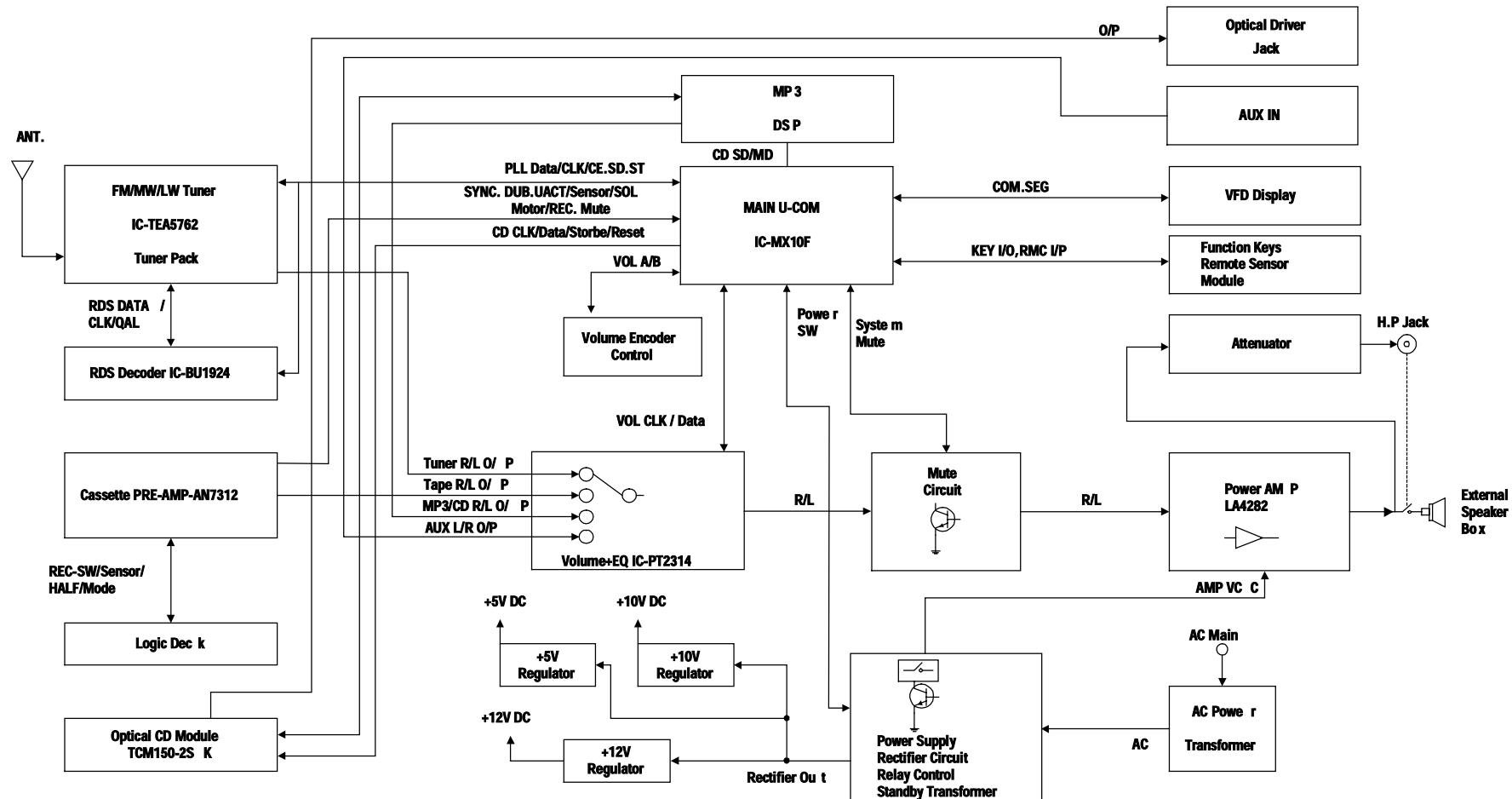
**DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL -  
SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE -  
ESQUEMA DEL TRATAMIENTO DIGITAL**

The complete Digital Processing Module is available from A.S.S. under Part Number :  
En SAV, l'ensemble du module traitement digital est géré sous le code :  
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :  
Il codice del modulo completo di elaborazione digitale è :  
En postventa, el modulo completo tratamiento digital lleva el código :

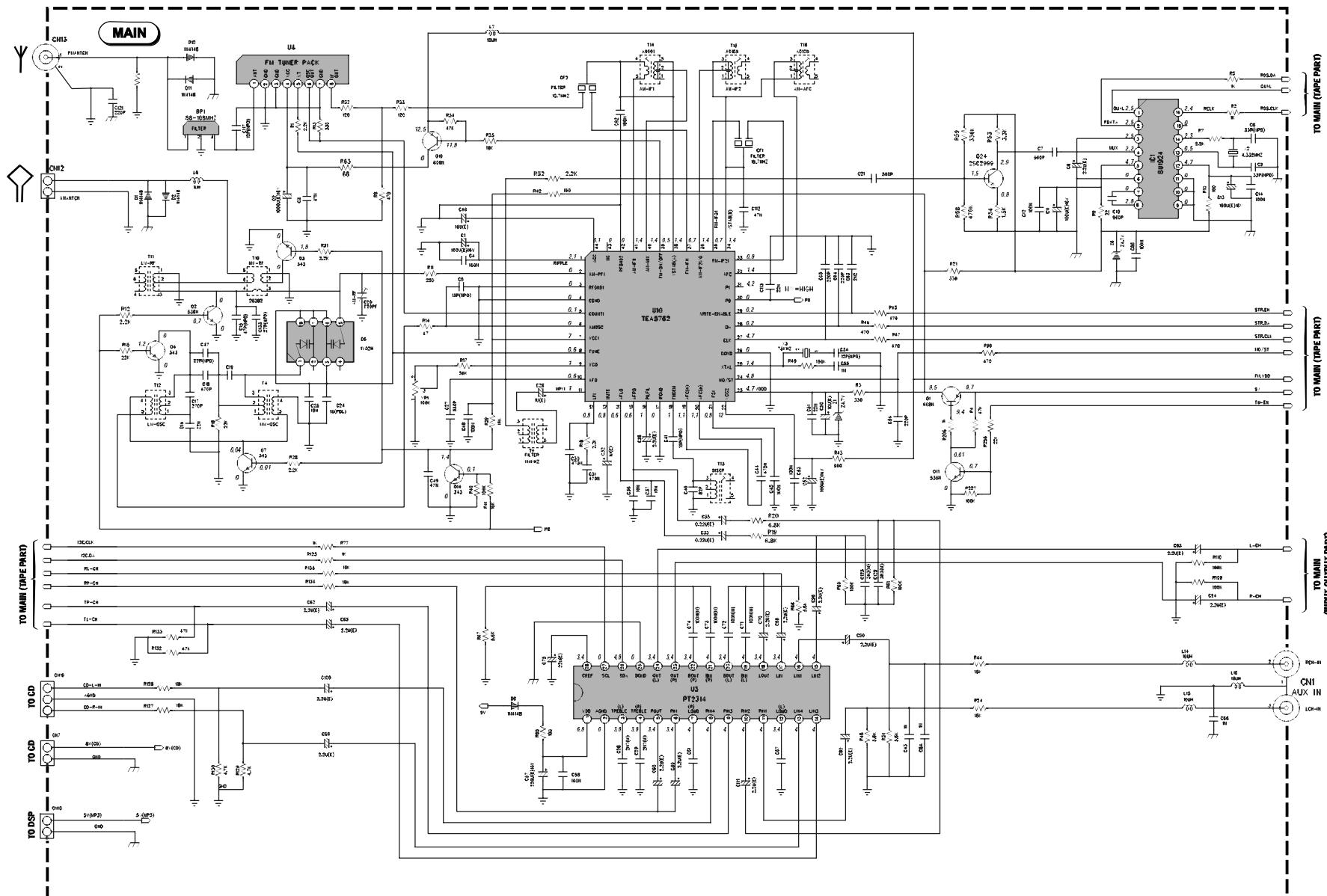
107 572 40



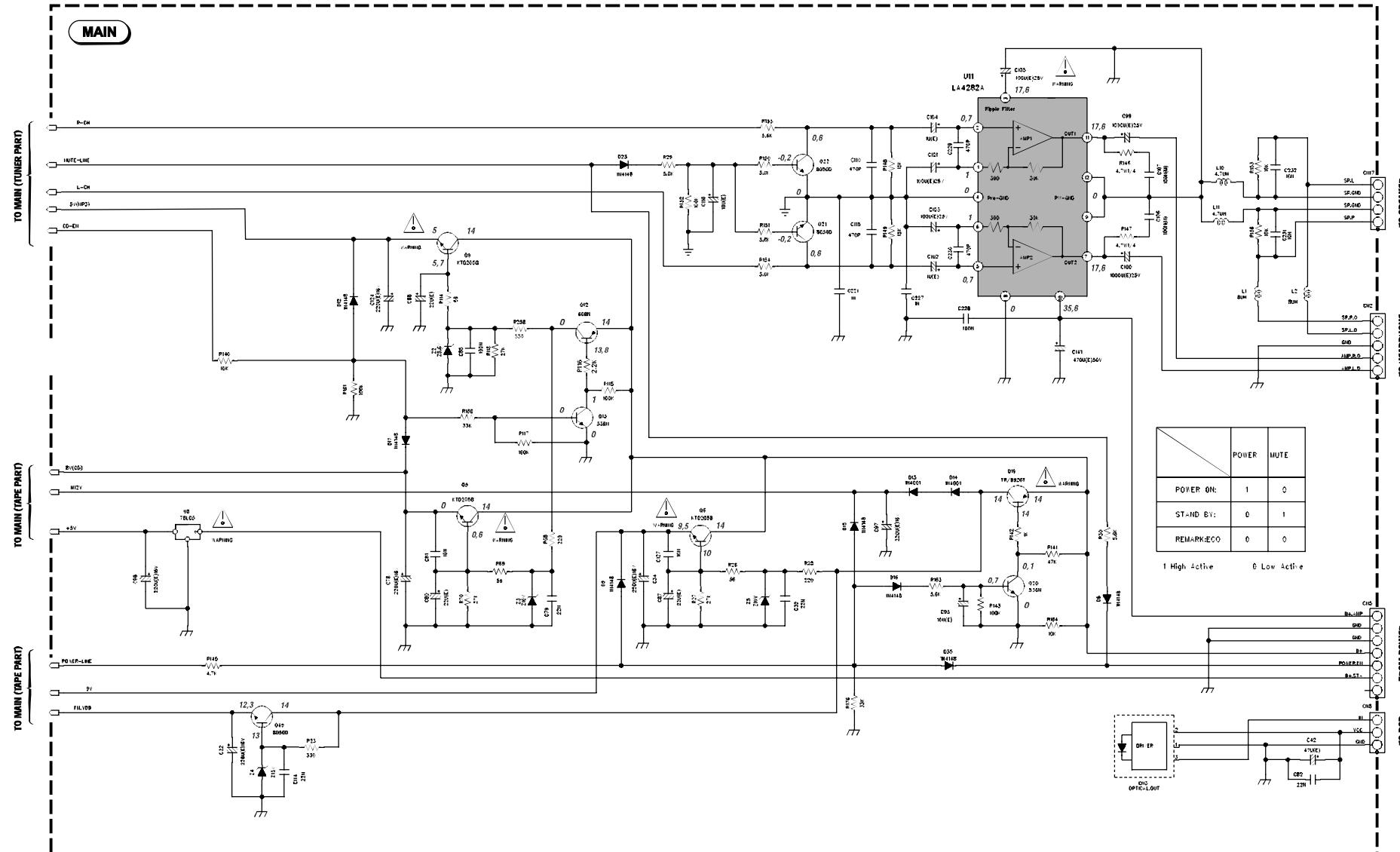
BLOCK DIAGRAM - SCHÉMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



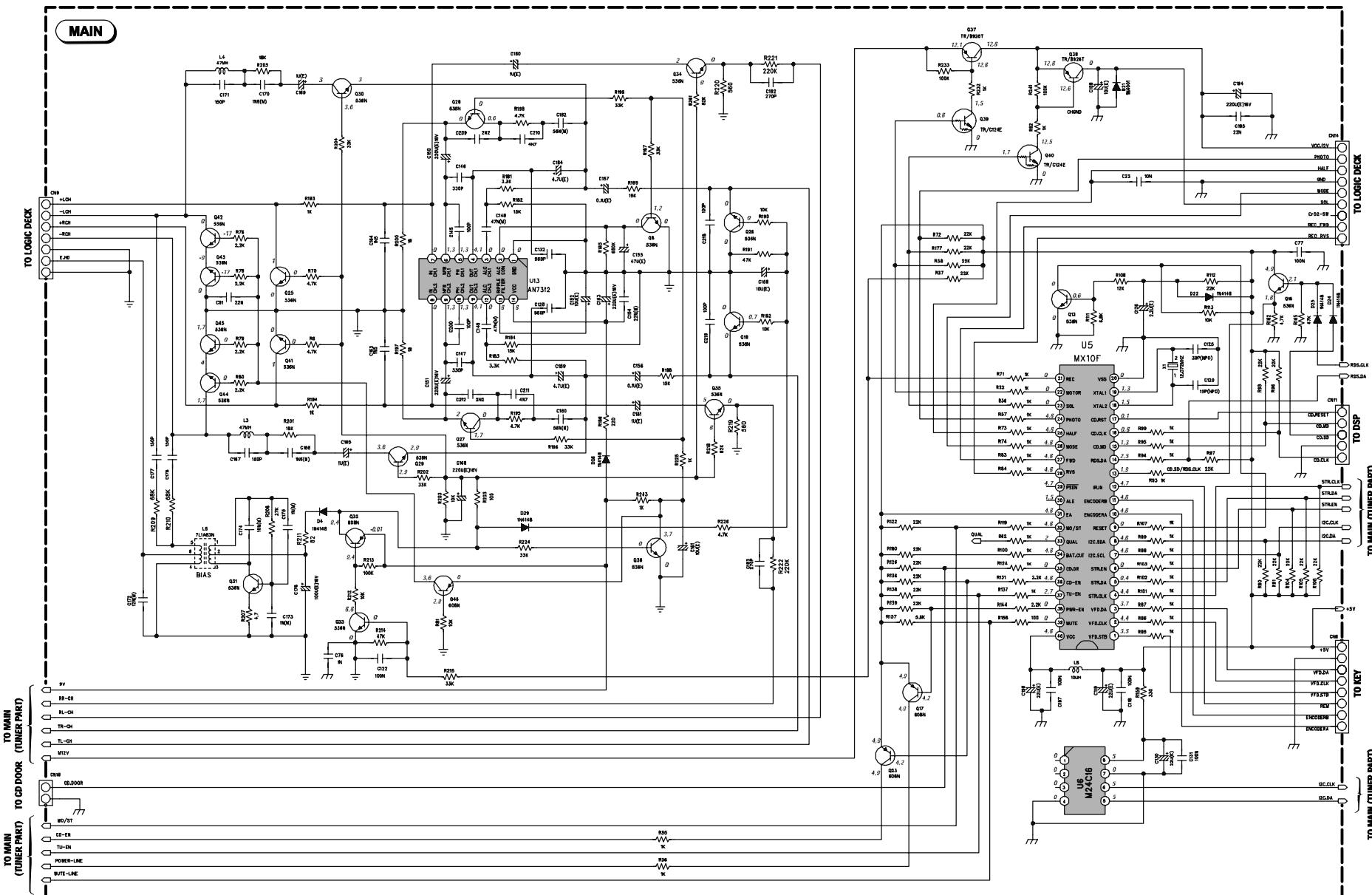
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TUNER PART)



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (INPUT OUTPUT PART)



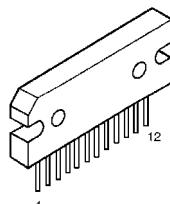
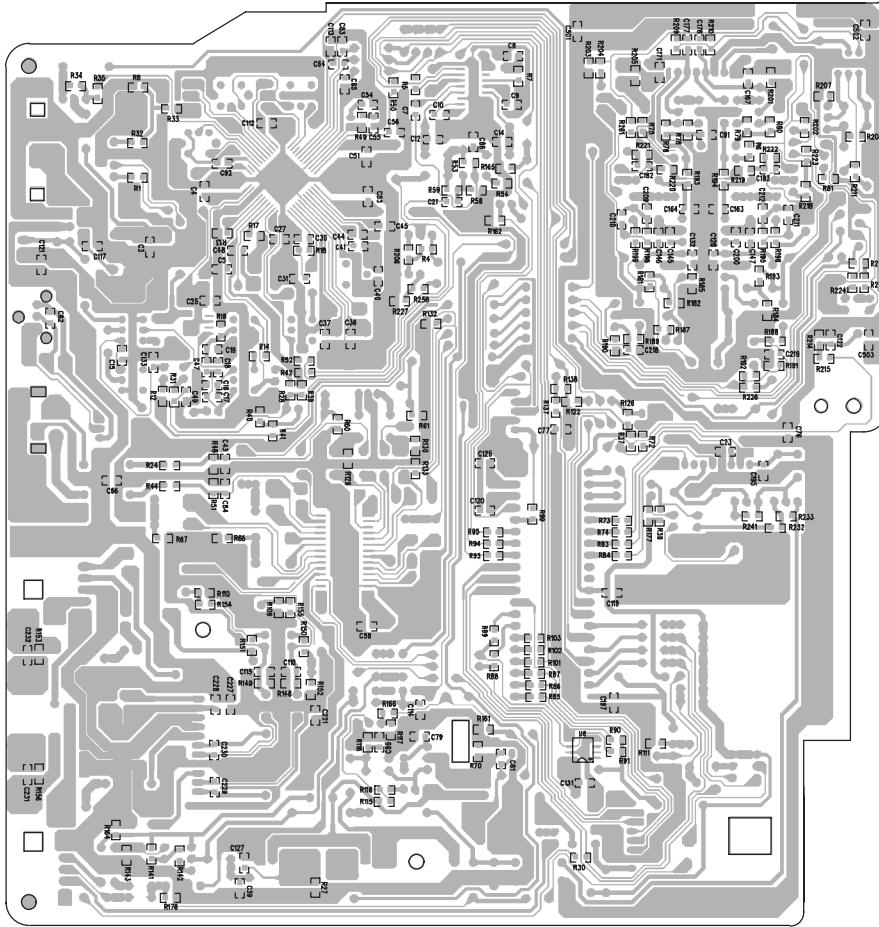
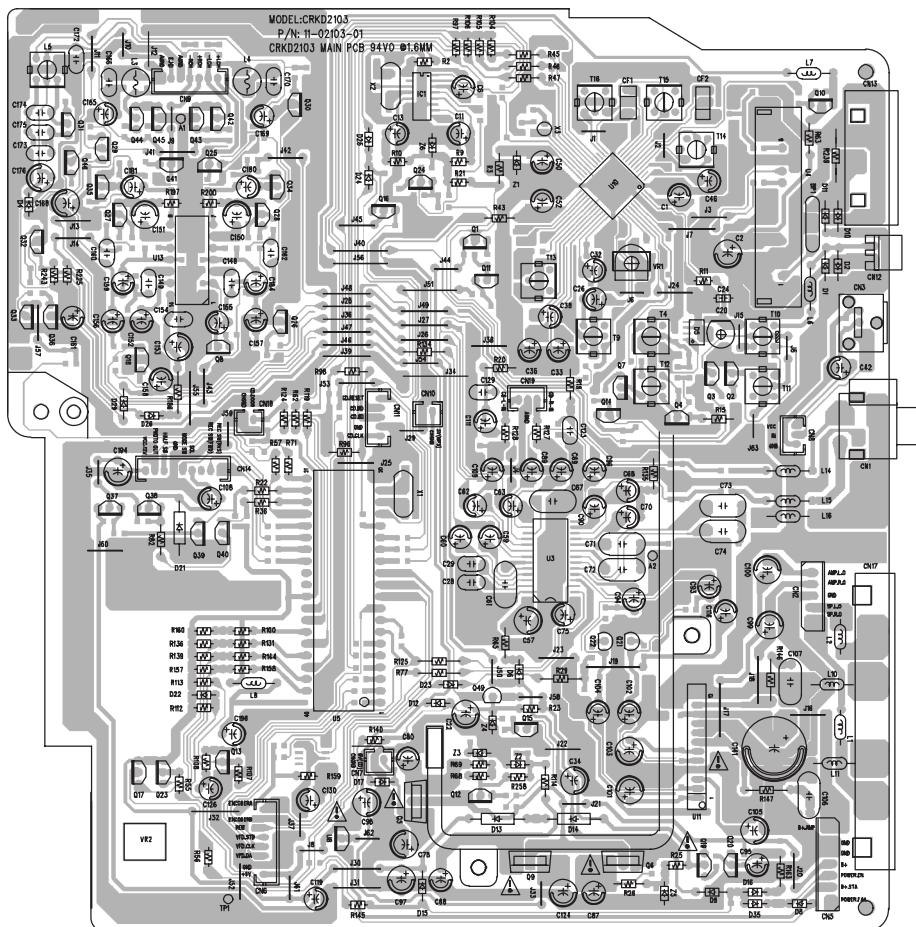
## MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TAPE AND INPUT/OUTPUT PART)



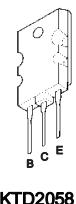
**Main P.C.B.  
Platine principale  
Grundplatte  
Piastra principale  
Platina principal**

Component side  
Côté composants  
Bestückungsseite  
Lato componenti  
Lado componentes

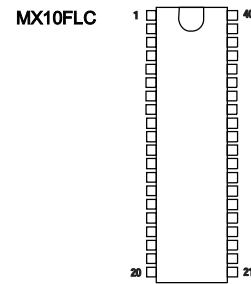
Solder side  
Côté soudure  
Lötseite  
Lato saldature  
Lado del cobre



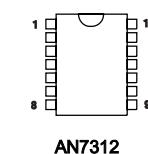
LA4282A



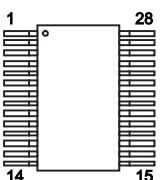
**KTD2058**



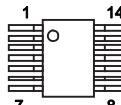
**MX10FLC**



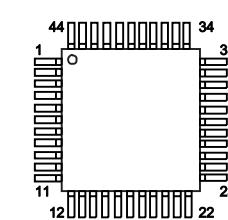
AN7312



PT2314

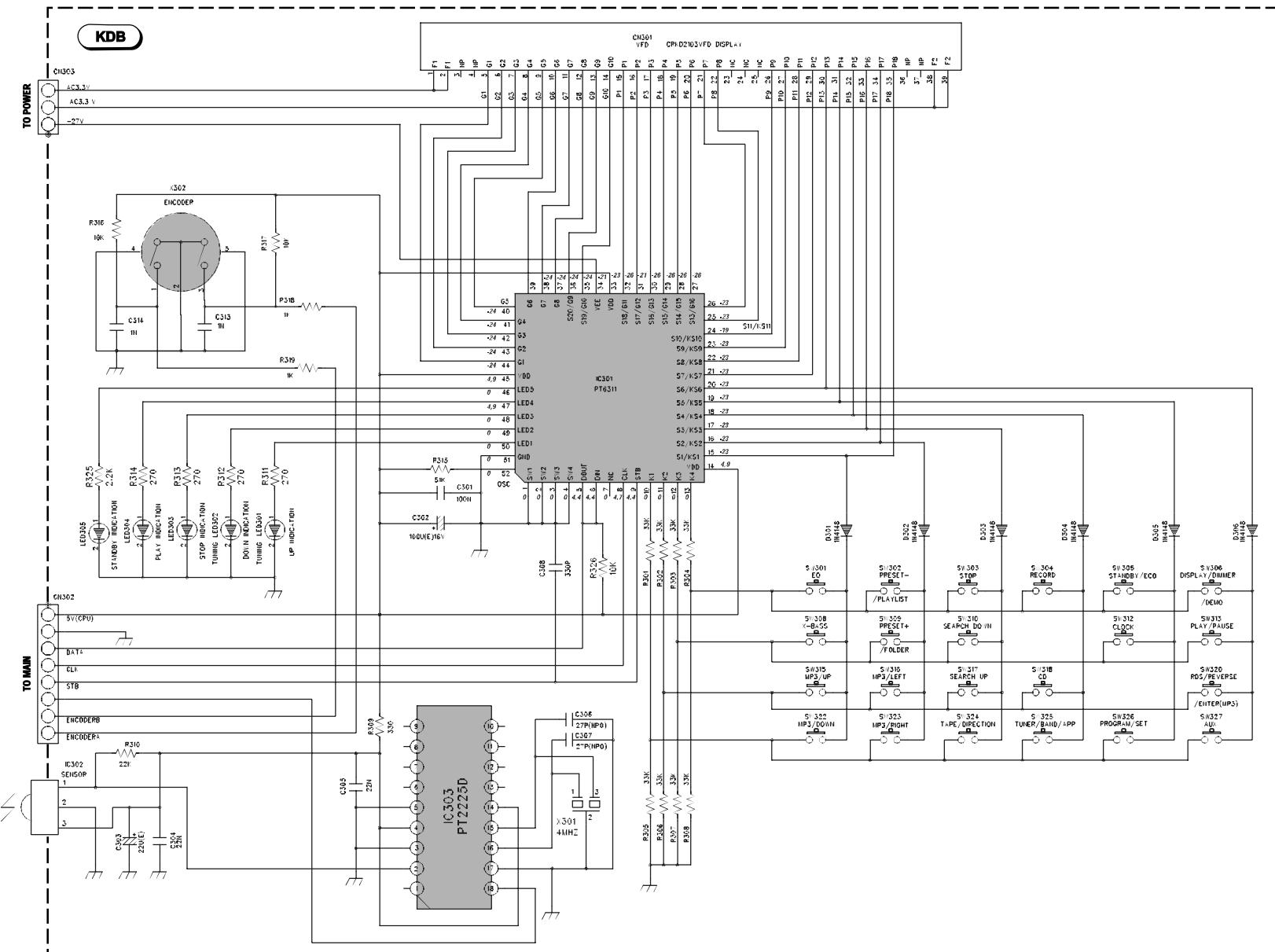


BU 1924E

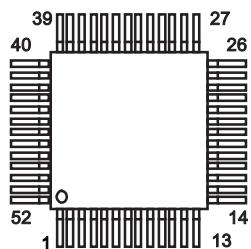
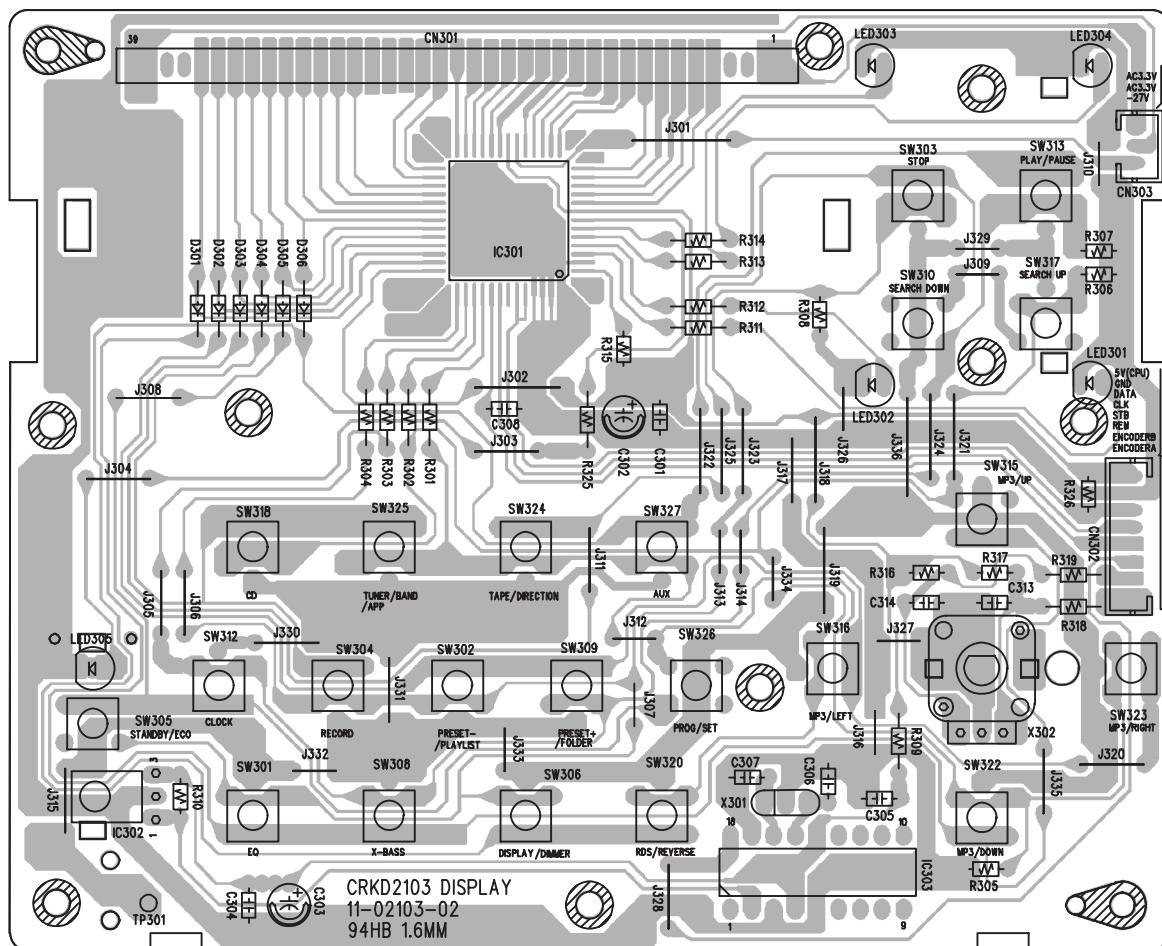


TEA5762

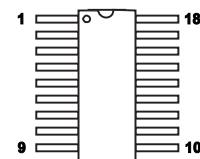
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE -  
ESQUEMA MANDOS / INDICADOR



**Controls / display P.C.B.**  
**Platine commandes / afficheurs**  
**Ltpl. Bedienteil / Anzeige**  
**Piastra comandi / indicatore**  
**Platina de mandos / indicadores**

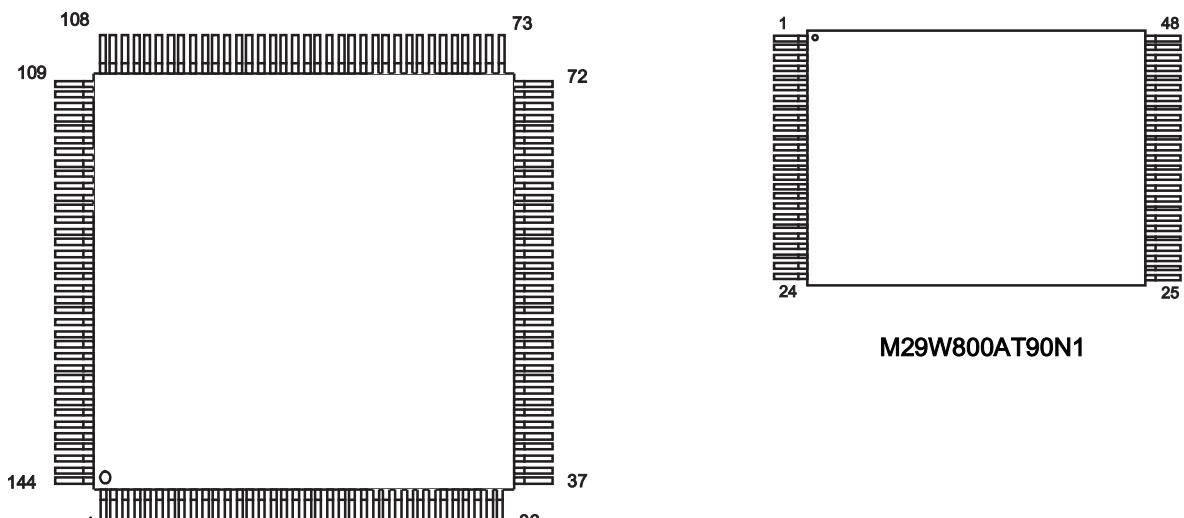
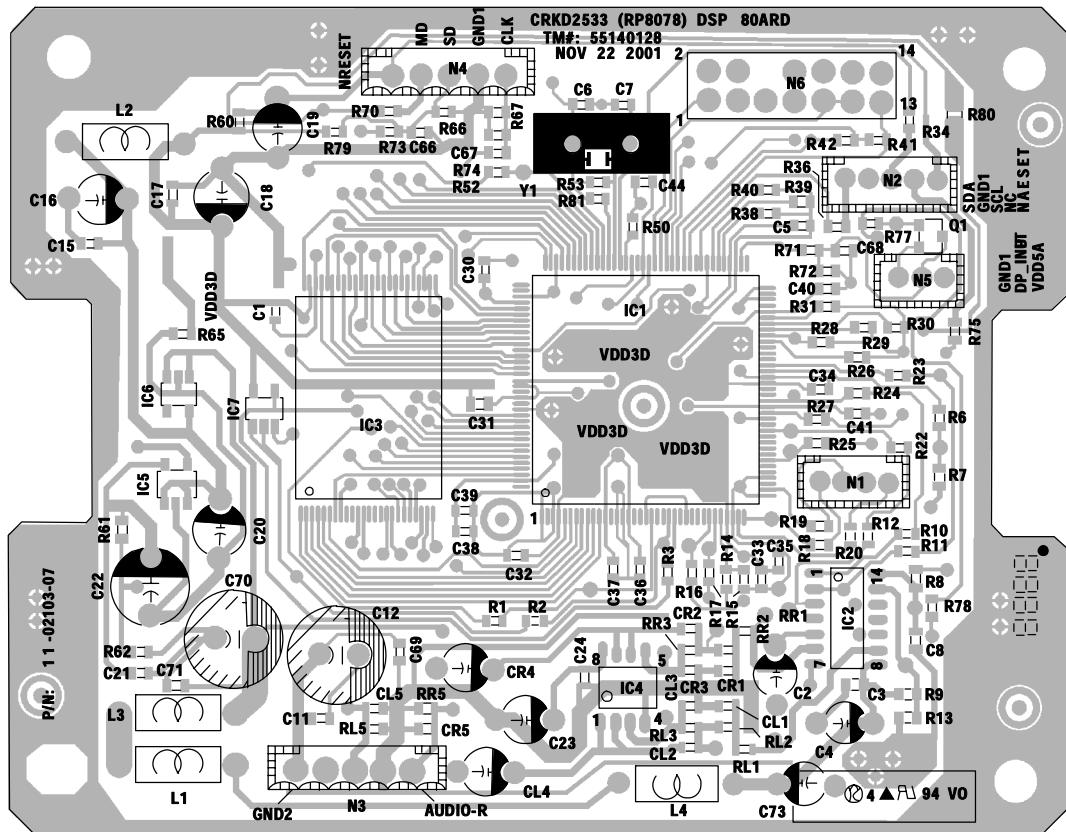


PT6311

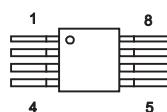


PT22250

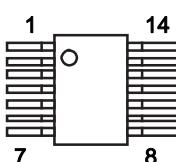
Digital processing P.C.B.  
 Platine traitement digital  
 Ltpi. Digitalverarbeitung  
 Piastra elaborazione digitale  
 Platina tratamiento digital



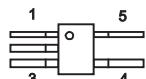
TMS 320VC5416



BA4558F



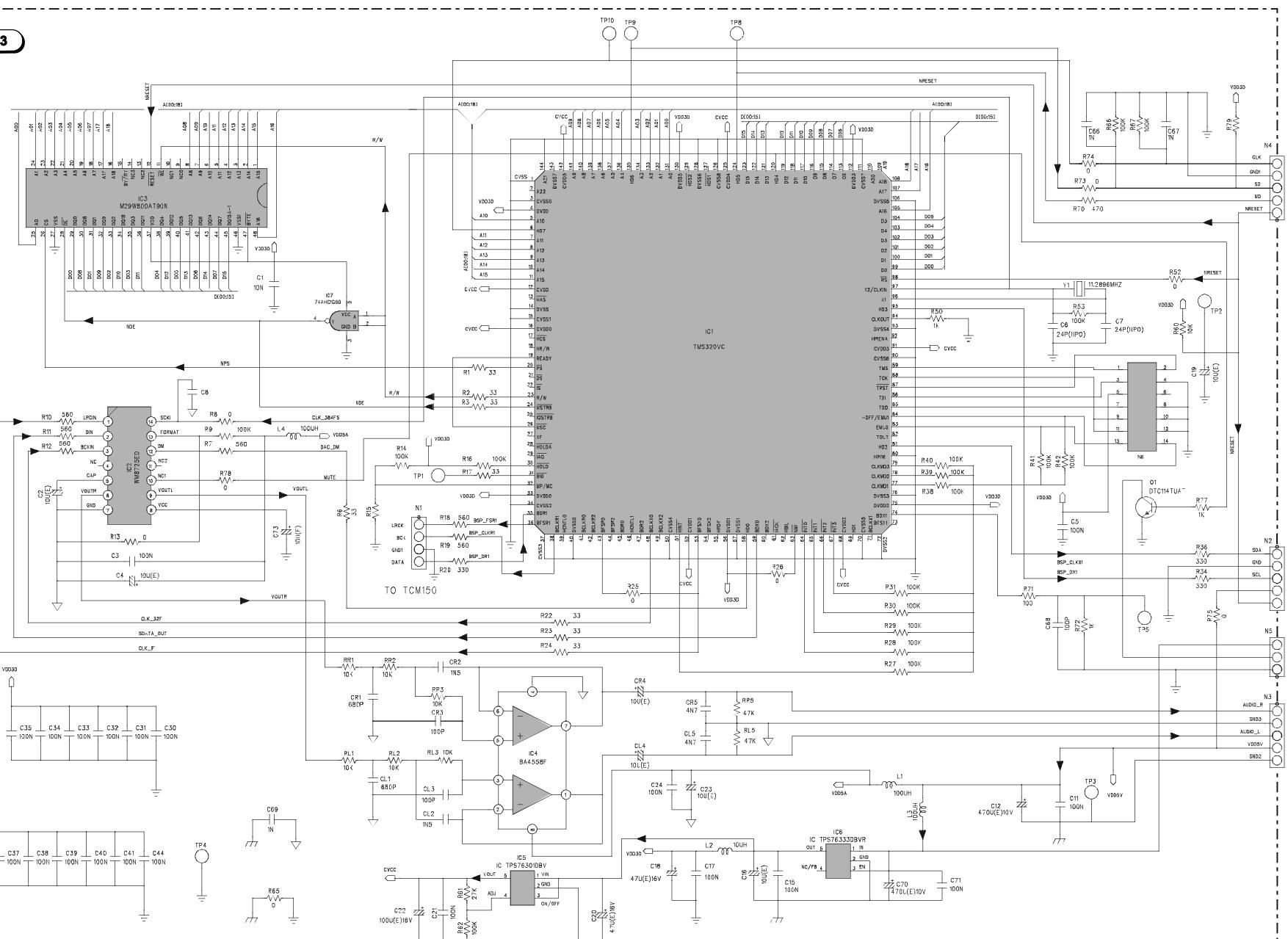
WM8725ED



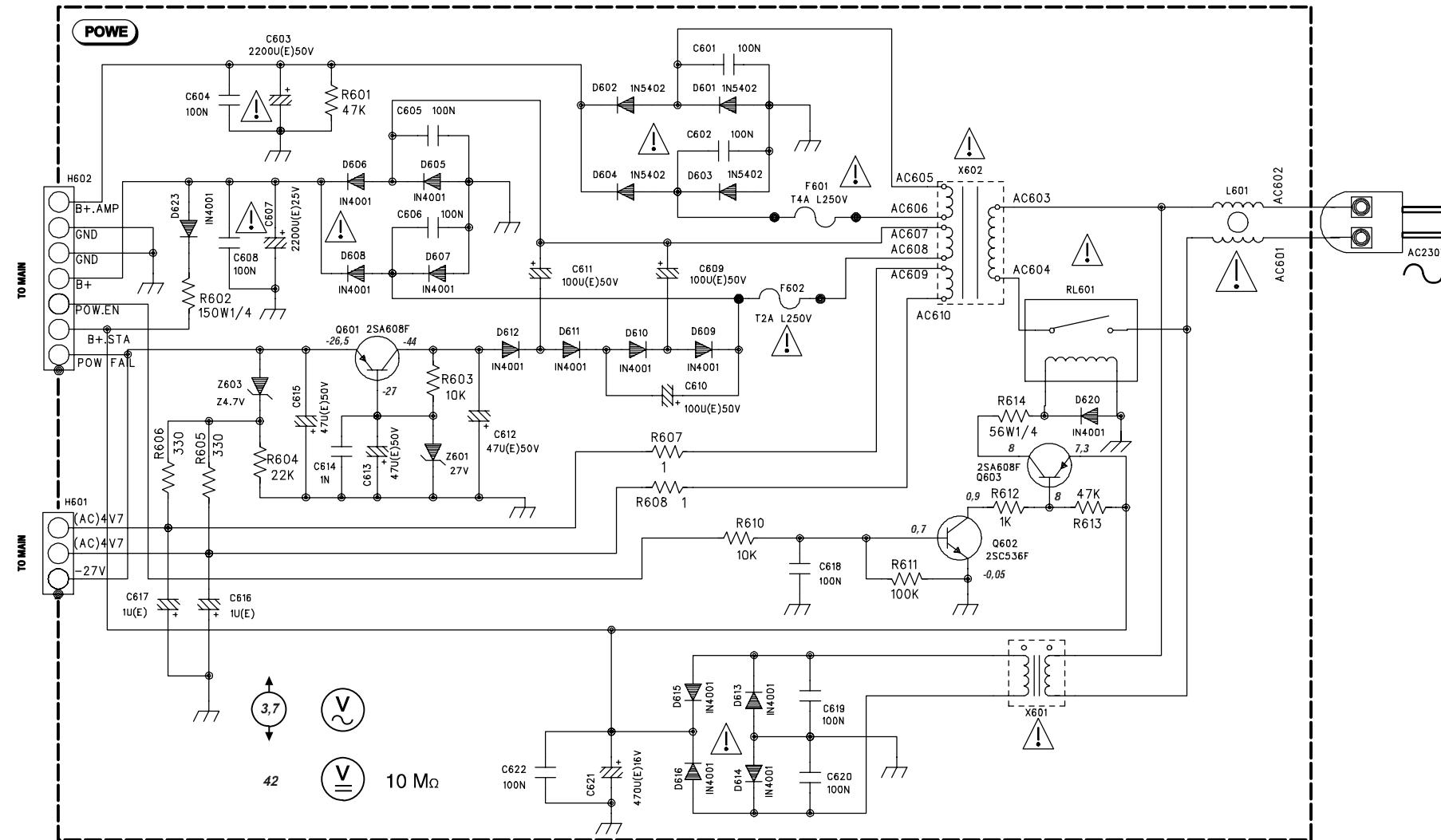
TPS 76331DBVR

DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL (MP3)

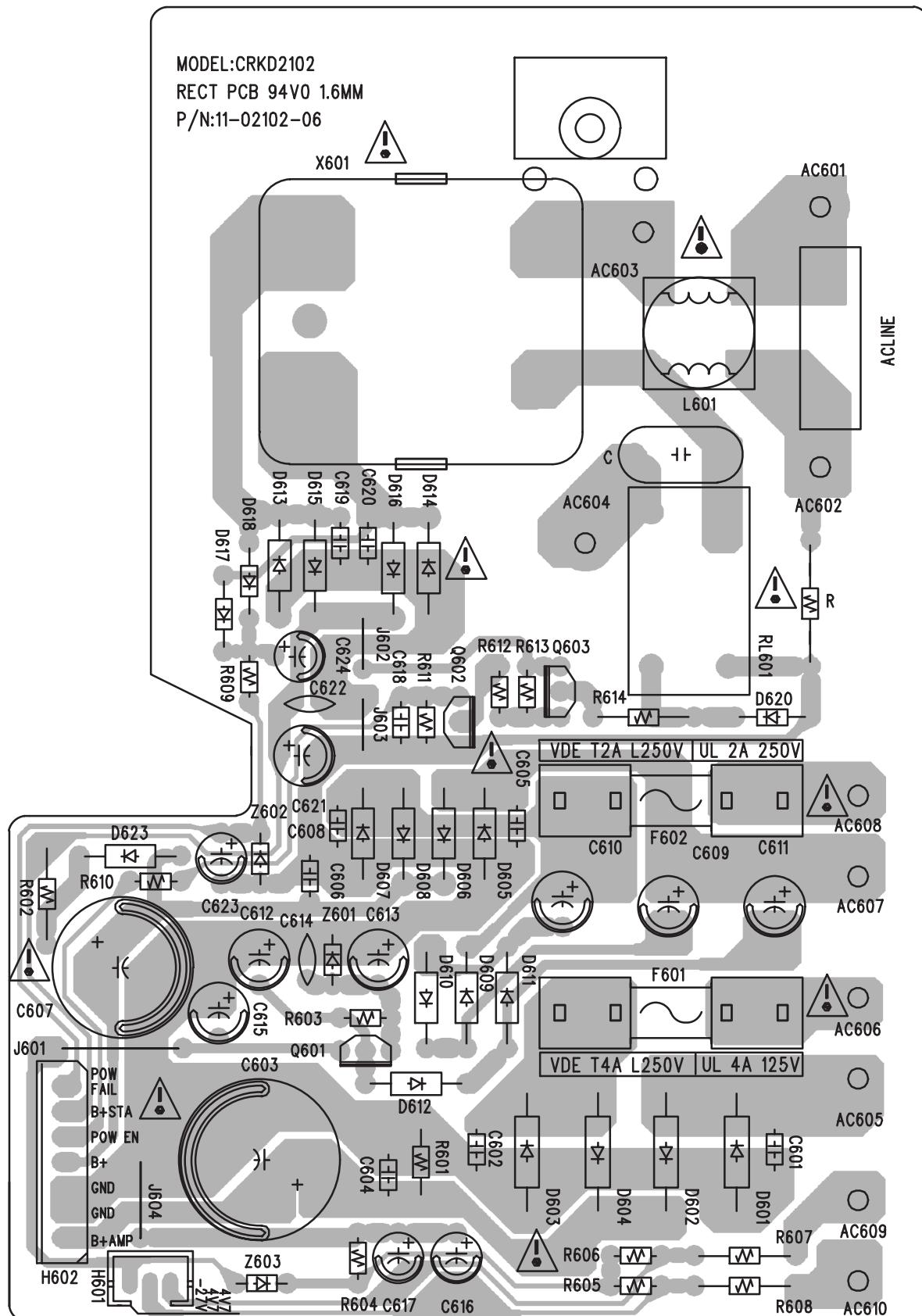
**MP3**



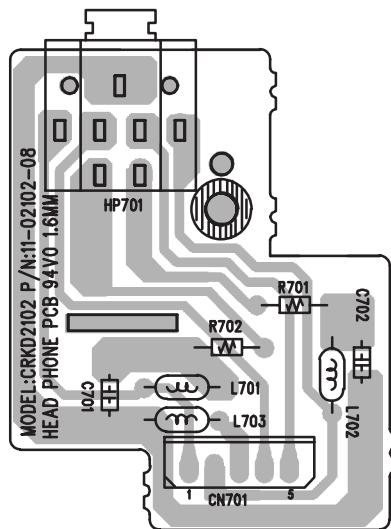
## POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



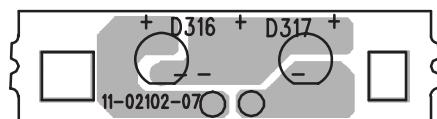
**Power unit P.C.B.**  
**Platine secteur**  
**Ltpl. Netzanschluss**  
**Piastra di rete**  
**Platina de red**



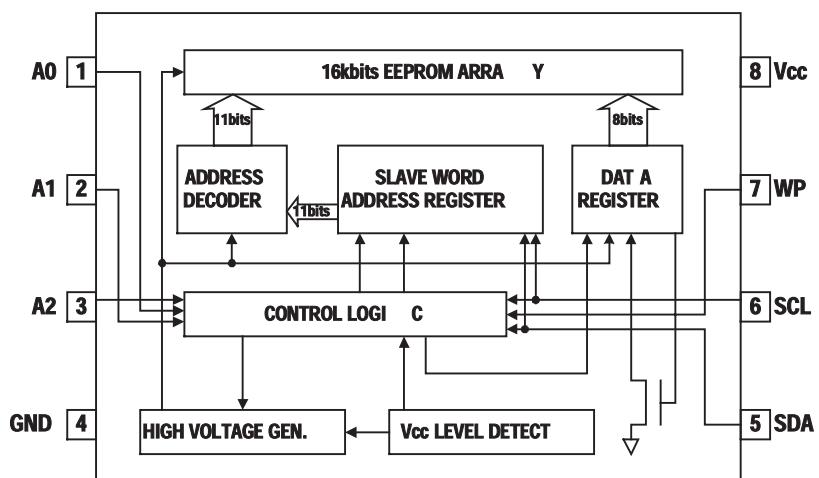
**Headphone-jack P.C.B.**  
**Platine prise-casque**  
**Ltpl. Kopfhörerbuchse**  
**Piastra presa per cuffia**  
**Platina toma auriculares**



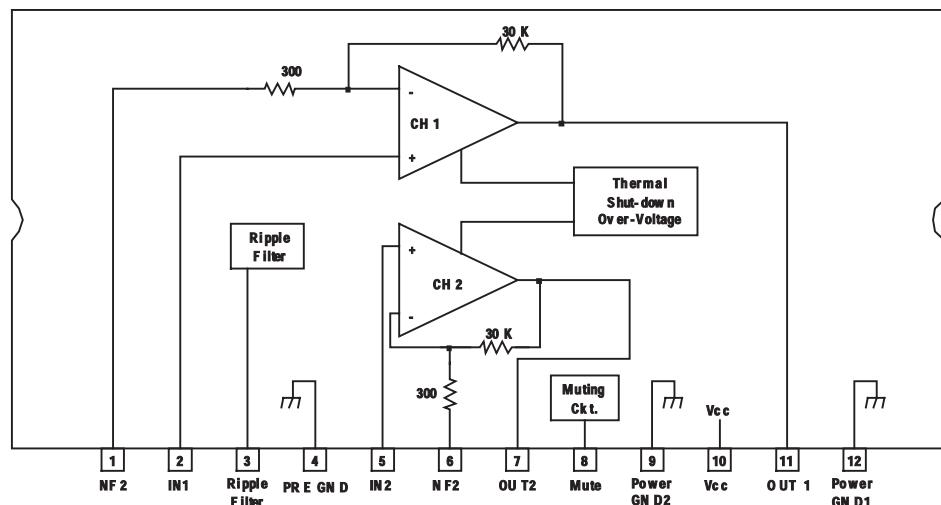
**IR receiver P.C.B.**  
**Platine récepteur IR**  
**Ltpl. IR Empfänger**  
**Piastra ricevitore IR**  
**Platina receptor IR**



**U6 M24C16**

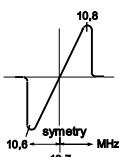


**U11 LA4282**



# ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

| AM alignment |   |          |          |           |         |                     |
|--------------|---|----------|----------|-----------|---------|---------------------|
|              |   | or<br>TP | f        | 18888 KHZ |         |                     |
| IF           | 1 |          | 450 kHz  | 450 kHz   | T14 T15 | Maximum output      |
| MW           | 2 |          | 522 kHz  | 522 kHz   | T4      | Vt V = 1,3V +/-0,1V |
|              | 3 |          | 1620 kHz | 1620 kHz  | T4      | Vt 7,5 < V < 8,5    |
| LW           | 4 |          | 150 kHz  | 150 kHz   | T12     | Vt V = 1,0V +/-0,1V |
|              | 5 |          | 283 kHz  | 283 kHz   | T12     | Vt 5,6 < V < 6,6    |
| MW           | 6 |          | 603 kHz  | 603 kHz   | T10     | Maximum output      |
|              | 7 |          | 1404 kHz | 1404 kHz  | C20     | Maximum output      |
| LW           | 8 |          | 164 kHz  | 164 kHz   | T11     | Maximum output      |
|              | 9 |          | 283 kHz  | 283 kHz   | T12     | Maximum output      |

| FM alignment |   |          |           |           |     |  |
|--------------|---|----------|-----------|-----------|-----|--|
|              |   | or<br>TP | f         | 18888 KHZ |     |  |
| IF           | 1 |          | 10.7 MHz  | 10.7 MHz  | T13 | Max.  |
| FM           | 2 |          | 87.5 MHz  | 87.5 MHz  |     | Vt V = 1,6V +/-0,1V  |
|              | 3 |          | 108.7 MHz | 108.7 MHz |     | Vt V = 8V +/-0,5V  |

| Decoder |   |  |          |           |     |                           |
|---------|---|--|----------|-----------|-----|---------------------------|
|         |   |  | f        | 18888 KHZ |     |                           |
|         | 1 |  | 98,1 MHz | 98,1 MHz  | VR1 | Separation maximum output |
|         |   |  |          |           |     |                           |

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## TECHNICAL INFORMATION N°2004 - 05

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**Chassis :**

**AM1480 (CRKD2103)**  
**AM1485 (CRKD2103U)**  
**AM2080 (CRKD2104)**  
**AM2180 (CRKD2105)**  
**CS350 (CRKD2118)**

**Symptom / Problem Observed :**

The display shows "no disk".

**Cause :**

Impossibility of reading the new CD copy protected.

**Solution :**

**- For models AM1480 and AM1485 :**

Modification software by exchanging of integrated circuit in position IC003. New code is : **35728910**.

**- For models AM2080 - AM2180 and CS350 :**

Change the old MP3 board Assy by a new one (**PART No 35663050**).

**IRIS Code :** The code mentioned below must be used to report the failure on the warranty claims form; we have included it to make fault report easier and the data more reliable.

| Symptom | Part code number | Qty | Position  | Section | D.Code | R.Code |
|---------|------------------|-----|-----------|---------|--------|--------|
| 1 5 1 4 | 3 5 7 2 8 9 1 0  | 0 1 | I C 0 0 3 | A D P   | Y      | A      |
|         | 3 5 6 6 3 0 5 0  | 0 1 |           | A D P   | Y      | A      |

You do not need to write anything in the white boxes.



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2004/02

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## INFORMAZIONE TECNICA N° 2004- 05

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**Telaio :**

**AM1480 (CRKD2103)**  
**AM1485 (CRKD2103U)**  
**AM2080 (CRKD2104)**  
**AM2180 (CRKD2105)**  
**CS350 (CRKD2118)**

**Problema :**

Il display indica "no disk".

**Causa :**

Impossibilità di lettura dei CD con nuovo sistema anticopia.

**Soluzione :**

**- Per i modelli AM1480 E AM1485 :**

Modificare la versione di software cambiando il circuito integrato IC003. Il nuovo codice è: **35728910**.

**- Per i modelli AM2080 - AM2180 E CS350 :**

Cambiare la piastra MP3 con una nuova, **codice N° 35663050**.

**CODICE IRIS :** Negli interventi effettuati in garanzia devono essere specificati i seguenti codici :

| Sintomo | Codice Ricambio | Qta | Posizione | Sezione | Code F | Code R |
|---------|-----------------|-----|-----------|---------|--------|--------|
| 1 5 1 4 | 3 5 7 2 8 9 1 0 | 0 1 | I C 0 0 3 | A D P   | Y      | A      |
|         | 3 5 6 6 3 0 5 0 | 0 1 |           | A D P   | Y      | A      |

Non scrivere nelle caselle bianche.



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2004/02